

CLAIM LISTING

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2
3 1. (Currently amended): A server system, comprising:
4 one or more computers; and
5 an application executing on the computers to handle client requests, the
6 application comprising:
7 a business logic layer to process the client requests according to a particular
8 business domain and produce replies to be returned to the clients in response to the
9 client requests; and
10 a presentation layer separate from, but in communication with, the business
11 logic layer to structure the replies in a manner that makes the replies presentable
12 on different types of client devices according to a tag library containing pre-
13 constructed tags for a variety of data formats; and
14 a request dispatcher to structure a reply for service back to a client device,
15 the request dispatcher being configured to access the tag library to obtain tags to
16 structure the reply according to a particular data format.
17
18 2. (Original): A server system as recited in claim 1, wherein the
19 application is reconfigurable to other business domains by substituting other
20 business logic layers that are designed to process the client requests according to
21 the other business domains.
22
23 3. (Original): A server system as recited in claim 1, wherein the
24 presentation layer is configured to determine a layout of content in the replies.
25

1 4. (Original): A server system as recited in claim 1, wherein the
2 presentation layer is configured to determine display attributes in the replies.

3
4 5. (Original): A server system as recited in claim 1, wherein the
5 different types of client devices support different data formats, the presentation
6 layer being configured to select appropriate data formats for encoding the replies.

7
8 6. (Original): A server system as recited in claim 1, wherein the
9 different types of client devices support different communication protocols, the
10 presentation layer being configured to select appropriate communication protocols
11 for delivering the replies to the clients.

12
13 7. (Original): A server system as recited in claim 1, wherein the
14 presentation layer is configured to determine how to display the replies for a
15 particular client.

16
17 8. (Original): A server system as recited in claim 1, wherein the
18 presentation layer comprises:

19 a presentation tier to determine how the replies will appear on the client
20 devices to users; and

21 a rendering tier, separate from the presentation tier, to determine how to
22 render the replies on the client devices.

23
24 9. (cancelled).

1 10. (currently amended): A server system as recited in claim 1 [[9]],
2 wherein the request dispatcher is configured to select a communication protocol to
3 be used to serve the reply back to the client device.

4
5 11. (currently amended): A server system as recited in claim 1 [[9]],
6 wherein the presentation layer further comprises a content renderer to conform the
7 reply structured by the request dispatcher to output capabilities of the client device
8 to which the reply will be returned.

9
10 12. (currently amended): In a server application that receives client
11 requests for a problem domain and has at least one problem solving module to
12 generate replies to be served back to clients, a presentation module separate from
13 the problem solving module, comprising:

14 a presentation component to construct how a reply will appear through use
15 of a tag library containing pre-constructed tags for a variety of data formats; and

16 a rendering component to configure how the reply is output on a particular
17 client.

18
19 13. (Original): A presentation module as recited in claim 12, wherein
20 the presentation component is configured to determine a layout of content to be
21 included in the reply.

1 14. (Original): A presentation module as recited in claim 12, wherein
2 the presentation component is configured to determine display attributes for the
3 reply.

4
5 15. (Original): A presentation module as recited in claim 12, wherein
6 the clients support different data formats, the presentation component being
7 configured to select an appropriate data format for encoding the reply for the
8 particular client.

9
10 16. (Original): A presentation module as recited in claim 12, wherein
11 the clients support different communication protocols, the presentation component
12 being configured to select an appropriate communication protocol for delivering
13 the reply to the particular client.

14
15 17. (Original): A presentation module as recited in claim 12, wherein
16 the rendering component is configured to conform the reply to a specific display at
17 the particular client.

18
19 18. (currently amended): A computer software architecture embodied
20 on one or more computer-readable media, comprising:

21 a presentation tier to determine how data for communication to a client
22 device is to be presented on the client device through use of a tag library
23 containing pre-constructed tags for a variety of data formats; and

24 a rendering tier, separate from the presentation tier, to determine how to
25 render the data on the client device.

1
2 **19.** (Original): A computer software architecture as recited in claim 18,
3 wherein the presentation tier is configured to determine at least one of (1) a layout
4 of the data, (2) a color scheme in which to present the data, (3) a presentation
5 theme, and (4) a particular skin appearance.

6
7 **20.** (Original): A computer software architecture as recited in claim 18,
8 wherein the presentation tier is configured to select a data encoding format for
9 encoding the data and a communications protocol in which to send the data to the
10 client device.

11
12 **21.** (Original): A computer software architecture as recited in claim 18,
13 wherein the presentation tier comprises multiple dispatchers, each dispatcher being
14 configured to encode the data according to a particular encoding format.

15
16 **22.** (Original): A computer software architecture as recited in claim 18,
17 wherein the presentation tier comprises multiple dispatchers, each dispatcher being
18 configured to package the data according to a particular communications protocol.

19
20 **23.** (Original): A computer software architecture as recited in claim 18,
21 wherein the presentation tier comprises:

22 a tag library containing pre-constructed tags for a variety of data formats;
23 and
24
25

1 a request dispatcher to structure the data using the tags from the tag library,
2 the tags being selected to structure the data in a manner that is supported by the
3 client device.

4
5 24. (Currently amended): An architecture comprising:
6 a tag library containing pre-constructed tags for a variety of data formats;
7 multiple request dispatchers to structure replies to be returned to client
8 devices in response to requests submitted by the client devices, individual request
9 dispatcher formatting data according to particular formats that are supported by
10 the client devices according to the tag library; and
11 content renderer to conform the replies to output capabilities of the client
12 devices to which the replies are to be returned.

13
14 25. (Original): An architecture as recited in claim 24, wherein
15 individual request dispatchers are further configured to select communication
16 protocols to be used to serve the replies back to the client devices.

17
18 26. (Original): An architecture as recited in claim 24, wherein the
19 content renderer is configured to conform the replies to specific display types at
20 the client devices.

21
22 27. (Currently amended): A method comprising:
23 receiving a reply generated by a server application in response to a client
24 request;
25

1 structuring the reply to define how the reply will appear when
2 communicated to and presented at the client through use of a tag library containing
3 pre-constructed tags for a variety of data formats; and

4 independent of said structuring, conforming the reply to output capabilities
5 of the client.

6
7 28. (Original): A method as recited in claim 27, wherein the structuring
8 comprises selecting an encoding format in which to encode the reply.

9
10 29. (Original): A method as recited in claim 27, wherein the structuring
11 comprises selecting a communication protocol for sending the reply to the client.

12
13 30. (Original): A method as recited in claim 27, wherein the structuring
14 comprises selecting at least one of (1) a layout of content in the reply, (2) a color
15 scheme of the reply, (3) a skin theme, and (4) a logo to brand the reply.

16
17 31. (Original): A method as recited in claim 27, further comprising:
18 storing pre-constructed tags that can be used to construct the reply in
19 different formats; and
20 selecting at least one of the tags when structuring the reply.

21
22 32. (Original): A method as recited in claim 27, wherein the
23 configuring comprises sizing the reply for a display at the client.

1 33. (Currently amended): One or more computer-readable media
2 comprising computer-executable instructions that, when executed, direct an
3 application server to:

4 generate replies in response to client requests through use of a tag library
5 containing pre-constructed tags for a variety of data formats, the client requests
6 being submitted by diverse client devices that support different data formats and
7 different communication protocols; and

8 structure the replies to define how the replies will appear when
9 communicated to and presented on the client devices and independently form
10 individual replies for output capabilities of the client devices so that the replies are
11 encoded to comply with the data formats supported by the client devices and are
12 sent using the communication protocols of the client devices.

13
14 34. (Original): One or more computer-readable media as recited in
15 claim 33, further comprising computer-executable instructions that, when
16 executed, direct an application server to use pre-constructed tags to structure the
17 replies.